

1. There remain acronyms that have not been explicitly expanded. For instance

- ETKF (first introduced in abstract l. 14 and in text l. 378)
- LETKF (ll. 14 and 37)

Concerning the latter, the authors mention l. 214 the paper by Hunt et al. (2007) without saying that it is precisely in that paper that the LETKF was first introduced (the connection is mentioned l. 377, but it must be mentioned earlier).

Please check that all acronyms are fully developed the first time they are used (both in the abstract and in the main text).

2. L. 333, ... *10,000 cycle times*. How long is a cycle here (from what I understand, there is no assimilation there) ?

3. Eq. (1). Model operator \mathcal{M} not defined

4. L. 228, *to be statistically independent*,

5. L. 72, *SGVD* \rightarrow *SVGD*

6. L. 151, *The first term in the parenthesis* ...

7. Ll. 254-255, *In algorithm 1 below*, ...

8. There are occasional useless repetitions. For instance, sentence l. 357 just repeats ll. 346-347.

9. Typos (actually, bugs in word-processing) in ll. 49, 498 and 499 (two typos for the last one).